CLAIMS

What is claimed is:

1	1. A method comprising:
2	reading one or more track offsets from a compact disk ("CD"); and
3	performing a database lookup using said offsets to identify information
4	associated with said CD in said database ("CD-related information").
1	
1	2. The method as in claim 1 further comprising:
2	encoding said offsets into an identification code; and
3	performing said database lookup using said identification code.
1	
1	3. The method as in claim 2 wherein encoding comprises:
2	executing a hash algorithm to generate said identification code.
1	
1	4. The method as in claim 3 wherein said hash algorithm is an MD5 hash
2	algorithm.
1	
1	5. The method as in claim 4 wherein said MD5 hash is rendered in a
2	Base-64 format.
1	
1	6. The method as in claim 1 wherein said CD-related information
2	comprises CD titles and CD track titles.
1	

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1	7. The method as in claim 1 further comprising.
2	if two or more CDs have the same track offsets, employing one or more
3	supplemental identification techniques to distinguish said two or more CDs in
4	said database.
1	
1	8. The method as in claim 7 wherein one of said supplemental
2	identification techniques comprises:
3	performing an analysis of audio content stored on said CDs.
1	
1	9. The method as in claim 8 wherein performing said analysis comprises:
2	identifying an audio analysis frame within which said audio content will be
3	analyzed; and
4	transforming said audio content into a spectral representation of said
5	audio content, said spectral representation usable to distinguish said two or more
6	CDs having the same track offsets.
1	
1	10. The method as in claim 9 wherein transforming further comprises:
2	performing one or more fast-Fourier transforms on said audio content
3	within said audio analysis frame to obtain said spectral representation as a matrix
4	of frequency coefficients.
1	
1	11. The method as in claim 10 further comprising:
2	convolutionally encoding one or more columns of said matrix to generate
3	convolutional codes representing each of said columns.
1	

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1	12. The method as in claim 11 further comprising:
2	encoding said convolutional codes to produce a single code representing
3	said matrix.
1	
1	13. The method as in claim 12 wherein encoding comprises:
2	performing a hash of said convolutional codes.
1	
1	14. The method as in claim 12 wherein encoding comprises:
2	convolutionally encoding said convolutional codes.
1	
1	15. A method for identifying media comprising:
2	identifying a multimedia analysis frame comprised of multimedia content
3	within said media;
4	transforming said multimedia content into a spectral representation of said
5	multimedia content; and
6	using said spectral representation to uniquely identify said media within a
7	database.
1	
I	16. The method as in claim 15 wherein identifying said multimedia
2	analysis frame comprises:
3	measuring average energy of multimedia content within one or more test
4	frames; and
5	identifying a test frame as said multimedia analysis frame if average
6	energy within said test frame is above a threshold value.
1	

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1	17. The method as in claim 16 further comprising:
2	identifying a start point for said test frame based on energy of said
3	multimedia content at said start point.
1	
1	18. The method as in claim 15 wherein transforming comprises:
2	converting said multimedia content into a plurality of frequency
3	coefficients.
1	
1	19. The method as in claim 18 wherein converting comprises:
2	performing one or more fast-Fourier transforms on said multimedia
3	content within said multimedia analysis frame to obtain a matrix of frequency
4	coefficients.
1	
1	20. The method as in claim 19 further comprising:
2	convolutionally encoding one or more columns of said matrix to generate
3	convolutional codes representing each of said columns.
1	
1	21. The method as in claim 20 further comprising:
2	encoding said convolutional codes to produce a single code representing
3	said matrix.
1	
1	22. The method as in claim 20 wherein encoding comprises:
2	performing a hash of said convolutional codes.
1	
1	23. The method as in claim 15 wherein said multimedia content comprises
2	audio content.
1	

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1	24. The method as in claim 23 wherein said media is a compact disk.
1	
1	25. A method for identifying compact disks ("CDs") comprising:
2	generating a first identification code based on data stored on a first CD;
3	attempting to perform a database lookup in a CD database using said first
4	identification code; and
5	employing a second identification technique if said first identification code
6	is a duplicate of an identification code used to identify a second CD in said
7	database.
1	
1	26. The method as in claim 25 wherein said first identification code is
2	based on data stored in a table of contents ("TOC") of said first CD.
1	
1	27. The method as in claim 26 wherein said data are track offsets for said
2	CD.
1	
1	28. The method as in claim 25 wherein generating a first identification
2	code comprises:
3	performing a hash of said track offsets to generate an offset hash value.
1	
1	29. The method as in claim 28 wherein said hash comprises an MD5
2	hash.
1	
1	30. The method as in claim 29 wherein said offset hash value is rendered
2	in base-64 format.
1	

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1	31. The method as in claim 25 wherein said second identification
2	technique comprises an analysis of a frame of audio content stored on said firs
3	CD.
1	
1	32. The method as in claim 31 wherein said analysis comprises
2	transforming said frame of audio content into its spectral components.
1	
1	33. The method as in claim 32 wherein transforming comprises:
2	performing one or more fast-Fourier transforms on said frame of audio
3	content to produce a matrix of frequency coefficients.
1	
1	34. The method as in claim 33 further comprising:
2	transforming said matrix into a single value representing said matrix.

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